

Statistical Literacy

	Accomplished (4)	Proficient (3)	Developing (2)
<p>Comprehend <i>Ability to explain information presented in statistical forms (e.g., equations, graphs, diagrams, tables, words)</i></p>	Provides accurate explanations of information presented in statistical forms. Makes appropriate inferences based on that information.	Provides accurate explanations of information presented in statistical forms.	Provides somewhat accurate explanations of information presented in statistical forms, but occasionally makes minor errors related to computation or units.
<p>Create <i>Ability to convert relevant information into various statistical forms (e.g., equations, graphs, diagrams, tables, words)</i></p>	Skillfully converts relevant information into an insightful statistical portrayal in a way that contributes to deeper understanding.	Competently converts relevant information into an appropriate and desired statistical portrayal.	Completes conversion of information but resulting statistical portrayal is only partially appropriate or accurate.
<p>Communicate <i>Ability to make judgments and draw appropriate conclusions based on the quantitative analysis of data, while recognizing the limits of this analysis</i></p>	Uses the quantitative analysis of data as a basis for deep and thoughtful judgments, drawing insightful, carefully qualified conclusions from this work.	Uses the quantitative analysis of data as a basis for competent judgments, drawing reasonable and appropriately qualified conclusions from this work.	Uses the quantitative analysis of data as a basis for workmanlike (without inspiration or nuance; ordinary) judgments, drawing plausible conclusions from this work.
<p>Evaluate <i>Ability to make and evaluate important assumptions in estimation, modeling, and data analysis</i></p>	Explicitly describes assumptions and provides compelling rationale for why each assumption is appropriate. Shows awareness that confidence in final conclusions is limited by the accuracy of the assumptions.	Explicitly describes assumptions and provides compelling rationale for why assumptions are appropriate.	Explicitly describes assumptions.
<p>Written Communication</p>	Uses elegant language that skillfully communicates meaning to readers with clarity and fluency, and is virtually error-free.	Uses straightforward language that generally conveys meaning to readers. The language in the paper has few errors.	Uses language that generally conveys meaning to readers with clarity, although writing may include some errors.